

Revision number: 3 Revision date: 10/17/2016

1. IDENTIFICATION

Product name: Product code: 2,5-Dihydroxy-1,4-dithiane D1761

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone:

+1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None

Hazards not otherwise classified: [HNOC] May develop pressure

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance 2,5-Dihydroxy-1,4-dithiane
Percent:	>96.0%(GC)
CAS Number:	40018-26-6
Molecular Weight:	152.23
Chemical Formula:	$C_4H_8O_2S_2$
Synonyms:	1,4-Dithiane-2,5-diol, Mercaptoacetaldehyde Dimer

4. FIRST-AID MEASURES

Inhalation: Skin contact: Eye contact: Ingestion:	If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If this chemical contacts the eyes, promptly wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If swallowed, seek medical advice immediately and show the container or label.
Symptoms/effects: Acute: Delayed:	No data available No data available

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624 **TCI AMERICA**

4. FIRST-AID MEASURES	
mmediate medical attention:	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Use extinguishing media suitable for surrounding materials.
Specific hazards arising from the che	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Sulfur oxides Closed containers may explode from heat of a fire.
Special precautions for fire-fighters: Not available	
Special protective equipment for fire- Not available	-fighters:
6. ACCIDENTAL RELEASE MEAS	SURES
Personal precautions:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8).
Personal protective equipment:	Safety glasses.
Emergency procedures:	In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution.
Prevent entry into sewers, basements c 7. HANDLING AND STORAGE	
Precautions for safe handling:	Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly sealed container. Store in refrigerator.
Storage incompatibilities:	Store away from oxidizing agents
8. EXPOSURE CONTROLS / PER	SONAL PROTECTION
Exposure limits:	No data available
Appropriate engineering controls: Follow safe industrial engineering/labor	atory practices when handling any chemical.
Personal protective equipment	
Respiratory protection:	Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection: Eye protection:	Wear protective gloves. Safety glasses.
Eye protection: Skin and body protection:	Lab coat.
9. PHYSICAL AND CHEMICAL PI	ROPERTIES
9. PHYSICAL AND CHEMICAL PI Physical state (20°C):	ROPERTIES Solid

Form: Color: Odor: Odor threshold: Solid Crystal - Powder White - Pale yellow No data available No data available 2,5-Dihydroxy-1,4-dithiane

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9. PHYSICAL AND CHEMICAL PROPERTIES pH: No data available Melting point/freezing point: No data available **Boiling point/range:** No data available Vapor pressure: No data available **Decomposition temperature:** No data available Vapor density: No data available No data available **Dynamic Viscosity:** No data available **Relative density: Kinematic Viscosity:** No data available Partition coefficient: No data available **Evaporation rate:** No data available n-octanol/water (log Pow) (Butyl Acetate = 1) No data available 310°C (590°F) Flash point: Autoignition temperature: No data available Flammability or explosive limits: Flammability (solid, gas): Lower: No data available Upper: No data available Solubility(ies): 10. STABILITY AND REACTIVITY Reactivity: Not Available. **Chemical Stability:** Heat sensitive. Moisture sensitive. Light sensitive. Possibility of Hazardous Reactions: No hazardous reactivity has been reported. Exposure to light. Exposure to moisture. Heat sensitive. Moisture sensitive. Conditions to avoid: Incompatible materials: Strong oxidizing agents Hazardous Decomposition Products: No data available 11. TOXICOLOGICAL INFORMATION Acute Toxicity: No data available Skin corrosion/irritation: No data available Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available Germ cell mutagenicity: No data available Carcinogenicity: No data available IARC: No data available NTP: No data available OSHA: No data available **Reproductive toxicity:** No data available Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact. Symptoms related to exposure: No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Potential Health Effects:

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Target organ(s): No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish:	No data available
Crustacea:	No data available
Algae:	No data available

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12. ECOLOGICAL INFORMATION

Persistence and degradability: Bioaccumulative potential (BCF):	No data available No data available
Mobillity in soil:	No data available
Partition coefficient:	No data available
n-octanol/water (log P _{ow})	
Soil adsorption (Koc):	No data available
Henry's Law:	No data available
constant (PaM ³ /mol)	

13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible.
Disposal of container:	Dispose of as unused product.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	
IMDG	Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:

Health: 2 Flammability: 0 Instability: 0 **HMIS Classification:**

Health:	2
Flammability:	0
Physical:	0

International Inventories

WHMIS hazard class: EC-No:

No data available. 254-751-6

16. OTHER INFORMATION

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16. OTHER INFORMATION

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.